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1. MDA12-001: Novel Planning Algorithms for Hybrid Land and Sea Platform Sensor Coordination

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: This Topic seeks research and development of innovative planning algorithms toward improving sensor coordination of a hybrid Aegis BMD System. The result of this effort should be adaptable planning algorithms that recommend options for optimizing Ship Operating Area (SOA) toward defending a given area against a missile raid (multiple targets). Research should include, but not be limit ...

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2. MDA12-002: Radar Waveforms to Discern Remote Object Attributes

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: Develop signal waveform characteristics and processing algorithms that will deduce sensor-invariant attributes of a tracked object so that it can be classified, discriminated and evaluated for engagement. Physics-based approaches are sought for broadest utility and general applicability. DESCRIPTION: The Missile Defense Agency (MDA) is seeking the development of enhanced radio ...

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3. MDA12-003: 3G and 4G Communication System Interference Remediation Techniques

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: This research seeks novel algorithms and signal processing techniques that will minimize Aegis-to-3G&4G and 3G&4G-to Aegis interference. Space-time, adaptive and other approaches are sought for broadest utility and generality. DESCRIPTION: The Missile Defense Agency (MDA) is seeking the development of novel RF modulation, timing and phasing as well as orthogonal and bi-static ...

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4. MDA12-004: Asset Pairing for Battle Management

Release Date: 04-24-2012Open Date: 05-24-2012Due Date: 06-27-2012Close Date: 06-27-2012

OBJECTIVE: To develop system optimization algorithms to enable effective fire control solutions in challenging environments. Design a procedure to task the right sensor at the right time for a selected target. DESCRIPTION: Given a diverse inventory of missile assets, as well as a sensor suite that may be able to view the target from different viewing angles, phenomenologies, accuracies and tim ...

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5. [MDA12-005: RF-IR Data Fusion for Track and Data Correlation](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: To develop new methods for multi-sensor target handover and characterization. DESCRIPTION: For radars fielded by the Missile Defense System, there is a given set of available features that were developed for acquisition, track and discrimination of targets. Similarly, for electro-optic/infrared sensors there are standard features which have been developed for acquisition, track and ...

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6. [MDA12-006: Anti-Tamper Technology for Missile Defense](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Zero Power/Ultra-Low Power X-Ray Sensors - Development of a zero power/ultra-low power x-ray sensing technology for use at the printed circuit board level or integrated circuit level, for the protection of critical technology from exploitation. DESCRIPTION: The Agency has issued a directive necessitating the protection of Critical Program Information (CPI) from unintentional t ...

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7. [MDA12-007: Techniques for Performing Warhead Characterization](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop an innovative, low cost approach to capture full-hemisphere, open-air, fragment mass, geometry and velocity information during arena and sled warhead characterization tests. DESCRIPTION: MDA is interested in developing techniques to improve the data collection, decrease the time required, and reduce the cost associated with performing ground-based warhead characterizati ...

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8. [MDA12-008: Modeling High Explosive \(HE\) Detonation Response and Resulting Debris/Shrapnel Generation from Submunitions Warheads](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop an innovative, low cost, approach to testing and modeling the HE submunition warhead response for hit-to-kill missile interceptors leveraging first-principle physics methodologies. Modeling of the high and low order HE response should be addressed to assess detonation probability. The selected approach must address HE response to the kinetic energy intercept as well as the m ...

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9. [MDA12-009: Fast-Running Physics-Based Models for Intercept Debris Aero-heating and Aero-thermal Demise](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop an approach for assessing the aero-thermal demise of the debris generated following a ballistic missile defense intercept DESCRIPTION: The intercept of a ballistic missile at high altitudes generates thousands of debris fragments, ranging in size from less than a millimeter to tens of centimeters. These pieces typically re-enter the atmosphere, and may or may not burn ...

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10. [MDA12-010: Antenna design in the Plasma Environment](#)

Release Date: 04-24-2012 Open Date: 05-24-2012 Due Date: 06-27-2012 Close Date: 06-27-2012

OBJECTIVE: Develop a tool to enable modeling and simulation and, in turn, design of antennas in a re-entry environment. Specifically, the goal is for a tool that provides the coupled prediction of the antenna performance in a plasma sheath. DESCRIPTION: The Missile Defense Agency flies a variety of ballistic missile targets for all elements of the Ballistic Missile Defense System. Dependi ...

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